

What is claimed is:

1. A horizontal roller mill comprising a cylinder and rollers, both ends of said cylinder each being provided with an end cover, the end cover of one end being provided with an inlet, the end cover of the other end being provided with an outlet port, on the outer wall surface of said cylinder is disposed a driving member for rotating the cylinder, the roller being located within the cylinder, the axial sections at both ends of the roller extending out of the end covers of the cylinder, on the two extended axial sections being provided with a mechanism for adjusting the material grinding pressure and for adjusting the gap between the surface of the roller and the inner wall surface of the cylinder, and there being provided scrapers configured to scrape material layers, wherein at least two of the rollers are distributed along the circumference of an inner cavity of the cylinder, and comprising a support system configured to restrict the cylinder in the circumferential direction.

2. A horizontal roller mill according to claim 1, wherein the at least two rollers are distributed uniformly along the circumference of the inner cavity of the cylinder.

3. A horizontal roller mill according to claim 1, wherein the cylinder is a conical cylinder, the roller is a conical roller, and a surface of the conical roller corresponds to the inner wall surface of the cylinder.

4. A horizontal roller mill according to claim 1, further comprising scrapers disposed between adjacent ones of the rollers.

5. A horizontal roller mill according to claim 1, further comprising a guide arranged under the scraper at an upper portion of the inner cavity of the cylinder, and wherein a tilt angle of the guide is adjustable.

6. A horizontal roller mill according to claim 1, further comprising a pressure applying mechanism coupled to an axial section of one end of the cylinder and configured to vary a material grinding pressure and a gap between the surface of the roller and the inner wall surface of the cylinder, wherein the axial section of the other end is connected to a hinged seat.